

CLAIMS

We claim:

1 1. A system for providing a user interface to distinguish
2 between and manipulate states of replica copies of
3 documents, databases and web sites online and offline,
4 comprising

5 web synchronization controls as an in-line to a web
6 page status indicator and menu of commands for
7 switching online/offline operation, triggering
8 synchronization and viewing and editing synchronization
9 properties; and

10 utilities for managing scheduled synchronization and
11 credentials necessary to execute synchronization.

1 2. The system of claim 1, further comprising:

2 a disk space usage display element for enabling user
3 limitation of usage or removal of said documents and
4 databases.

3. The system of claim 1, said web synchronization controls selectively comprising an Internet Explorer Active X, Netscape plug in, or a Java component.

4. The system of claim 1, further comprising a synchronization manager initial window for displaying to said user said status indicator and menu of commands;

said status indicator including a subscription listing including for each listed subscription subscription title, subscription on-line URL, subscription size, and subscription status and time of last synchronization; and

said menu of commands including command selection tabs for starting synchronization, stopping synchronization, viewing synchronization details, viewing synchronization properties, opening subscription online, opening subscription offline, enabling, disabling, and deleting subscriptions.

5. The system of claim 4, said menu of commands being operable with respect to subscriptions selected in said

3 subscription listing.

1 6. The system of claim 5, said tab for viewing
2 synchronization properties displaying a subscription
3 properties box for viewing and changing security and
4 synchronization setting for a subscription selected in said
5 subscription listing.

1 7. The system of claim 6, said subscription properties box
2 including a subscription tab, a schedule tab, a security
3 tab, and a synchronization options tab.

1 8. The system of claim 7, said subscription tab providing
2 user selectable tabs for viewing subscription title, size,
3 URL, synchronization state, last synchronization time, last
4 synchronization status, and next scheduled synchronization
5 time.

1 9. The system of claim 7, said schedule tab providing a
2 user selectable tab for disabling synchronization.

1 10. The system of claim 7, said security tab providing to
2 said user a user selectable tab for remembering said user
3 password in support of future scheduled replication without
4 user prompt for user password.

1 11. The system of claim 7, said synchronization options tab
2 providing user selectable tabs for selectively viewing
3 section settings, limiting the size of sections for
4 downloading, limiting download to documents saved within a
5 selectable number of days, disabling synchronization of
6 optional sections, limiting total size of selected
7 subscriptions, auto downloading any new optional files,
8 sending pending outgoing mail messages before closing
9 exiting, synchronizing new or modified documents before
10 shutdown, or requesting notification of completed
11 synchronizations.

1 12. A system of resources for defining a subscription in a
2 workflow, enterprise and mail-enabled application server,
3 comprising:

4 guidelines and best practices instructions files for
5 defining customization varieties and aesthetic controls
6 of a subscription design;

7 a resource library of web design elements for developer
8 inclusion into a template file for administrator
9 definition in an offline configuration document of a
10 client download page experience and synchronization

11 control experience.

1 13. The system of claim 12, said design elements being Java
2 status script and forms, and said inclusion being
3 accomplished by copy and paste.

1 14. A system of administrator tools for defining a
2 subscription in a workflow, enterprise and mail-enabled
3 application server, comprising:

4 a developer defined template file of design elements
5 initializing design of said subscription;

6 a server side user interface responsive to said
7 template file for defining an offline configuration
8 document for said subscription; and

9 a server side user interface responsive to said
10 template file for defining offline security for said
11 subscription.

1 15. The system of claim 14, said offline configuration
2 document further comprising tabbed pages for presenting
3 defaults of properties for client subscriptions.

1 16. The system of claim 15, said tabbed pages including a
2 basic page, a services page, a schedules page, a rules page,
3 and a download page field.

1 17. The system of claim 16, said tabbed pages providing for
2 administrator selection services to install offline, custom
3 services to install offline, synchronization schedule,
4 frequency , limitations and exceptions, and synchronization
5 rules.

1 18. The system of claim 17, said synchronization rules
2 selectively defining file rules, date filtering
3 synchronization options, halt conditions synchronization
4 options, and synchronization optional actions.

1 19. The system of 14, said offline security for said
2 subscription being configured by a security policy form
3 presenting for administrator selection security domain.
4 definition and ID deployment policy.

1 20. The system of claim 19, said ID deployment policy
2 including selection options for prompt, auto generate, and
3 directory lookup deployment of IDs.

1 21. A method for providing a user interface to distinguish

between and manipulate states of replica copies of documents
online and offline, comprising the steps of:

displaying web synchronization controls as an inline to
a web page status indicator and menu of commands, said
controls selectively switching online/offline
operation, triggering synchronization, and viewing and
editing synchronization properties; and

displaying utilities for managing scheduled
synchronization and credentials necessary to execute
synchronization.

22. The method of claim 21, further comprising the step of:

displaying a synchronization manager initial window to
said user said status indicator and menu of commands;

said status indicator including a subscription
listing including for each listed subscription
subscription title, subscription on-line URL,
subscription size, and subscription status and
time of last synchronization; and

said menu of commands including command selection

10 tabs for starting synchronization, stopping
11 synchronization, viewing synchronization details,
12 viewing synchronization properties, opening
13 subscription online, opening subscription offline,
14 enabling, disabling, and deleting subscriptions.

1 23. The method of claim 21, further comprising the step of:

2 displaying a subscription properties box for
3 selectively viewing and changing security and
4 synchronization settings for a subscription selected in
5 said subscription listing.

1 24. A method for defining a subscription in a workflow,
2 enterprise and mail-enabled application server, comprising:

3 providing guidelines and best practices instructions
4 files for defining customization varieties and
5 aesthetic controls of a subscription design; and

6 providing a resource library of web design elements for
7 developer inclusion into a template file for
8 administrator definition in an offline configuration
9 document of a client download page experience and
10 synchronization control experience.

25. A method for defining a subscription in a workflow,
enterprise and mail-enabled application server, comprising:

displaying a developer defined template file of design
elements initializing design of said subscription;

responsive to said template file, defining an offline
configuration document for said subscription; and

responsive to said template file, defining offline
security for said subscription.

26. A program storage device readable by a machine,
tangibly embodying a program of instructions executable by a
machine to perform method steps for providing a user
interface to distinguish between and manipulate states of
replica copies of documents online and offline, said method
steps comprising:

displaying web synchronization controls as an inline to
a web page status indicator and menu of commands, said
controls selectively switching online/offline
operation, triggering synchronization, and viewing and
editing synchronization properties; and

12 displaying utilities for managing scheduled
13 synchronization and credentials necessary to execute
14 synchronization.

1 27. A program storage device readable by a machine,
2 tangibly embodying a program of instructions executable by a
3 machine to perform method steps for defining a subscription
4 in a workflow, enterprise and mail-enabled application
5 server, said method steps comprising:

6 providing guidelines and best practices instructions
7 files for defining customization varieties and
8 aesthetic controls of a subscription design; and

9 providing a resource library of web design elements for
10 developer inclusion into a template file for
11 administrator definition in an offline configuration
12 document of a client download page experience and
13 synchronization control experience.

1 28. A program storage device readable by a machine,
2 tangibly embodying a program of instructions executable by a
3 machine to perform method steps for defining a subscription
4 in a workflow, enterprise and mail-enabled application
5 server, said method steps comprising:

6 displaying a developer defined template file of design
7 elements initializing design of said subscription;
8 responsive to said template file, defining an offline
9 configuration document for said subscription; and
10 responsive to said template file, defining offline
11 security for said subscription.

1 29. A computer program product configured to be operable
2 for providing a user interface to distinguish between and
3 manipulate states of replica copies of documents online and
4 offline, according to the steps of:

5 displaying web synchronization controls as an inline to
6 a web page status indicator and menu of commands, said
7 controls selectively switching online/offline
8 operation, triggering synchronization, and viewing and
9 editing synchronization properties; and

10 displaying utilities for managing scheduled
11 synchronization and credentials necessary to execute
12 synchronization.

1 30. A computer program product configured to be operable

for defining a subscription in a workflow, enterprise and mail-enabled application server, according to the steps of:

providing guidelines and best practices instructions files for defining customization varieties and aesthetic controls of a subscription design; and

providing a resource library of web design elements for developer inclusion into a template file for administrator definition in an offline configuration document of a client download page experience and synchronization control experience.

31. A computer program product configured to be operable for defining a subscription in a workflow, enterprise and mail-enabled application server, according to the steps of:

displaying a developer defined template file of design elements initializing design of said subscription;

responsive to said template file, defining an offline configuration document for said subscription; and

responsive to said template file, defining offline security for said subscription.